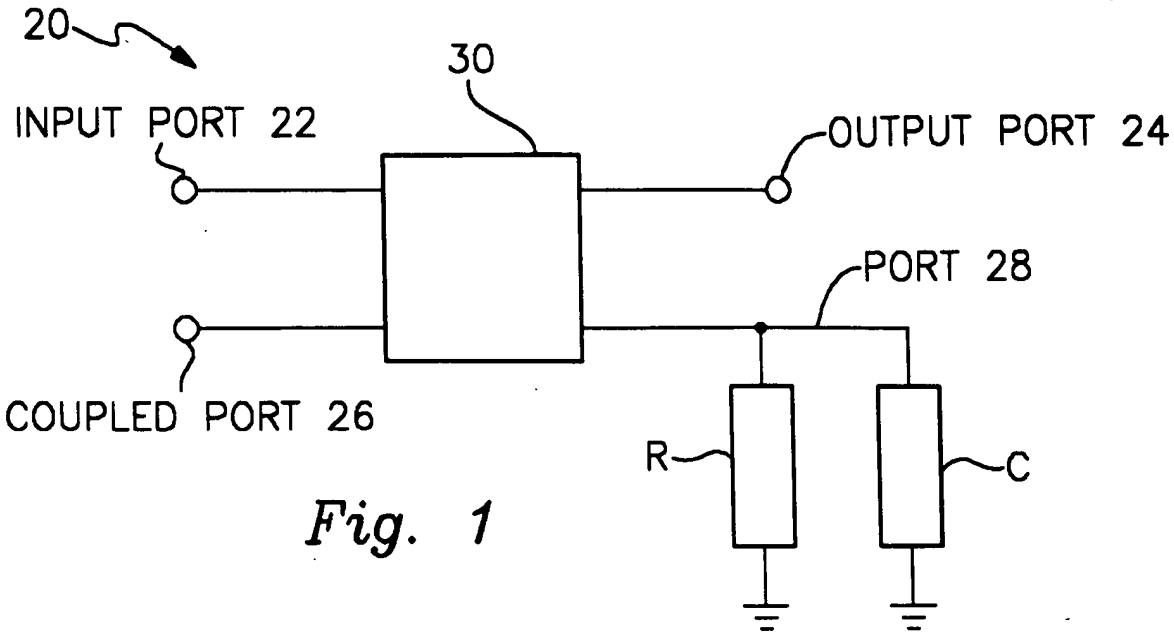

Fig. 1

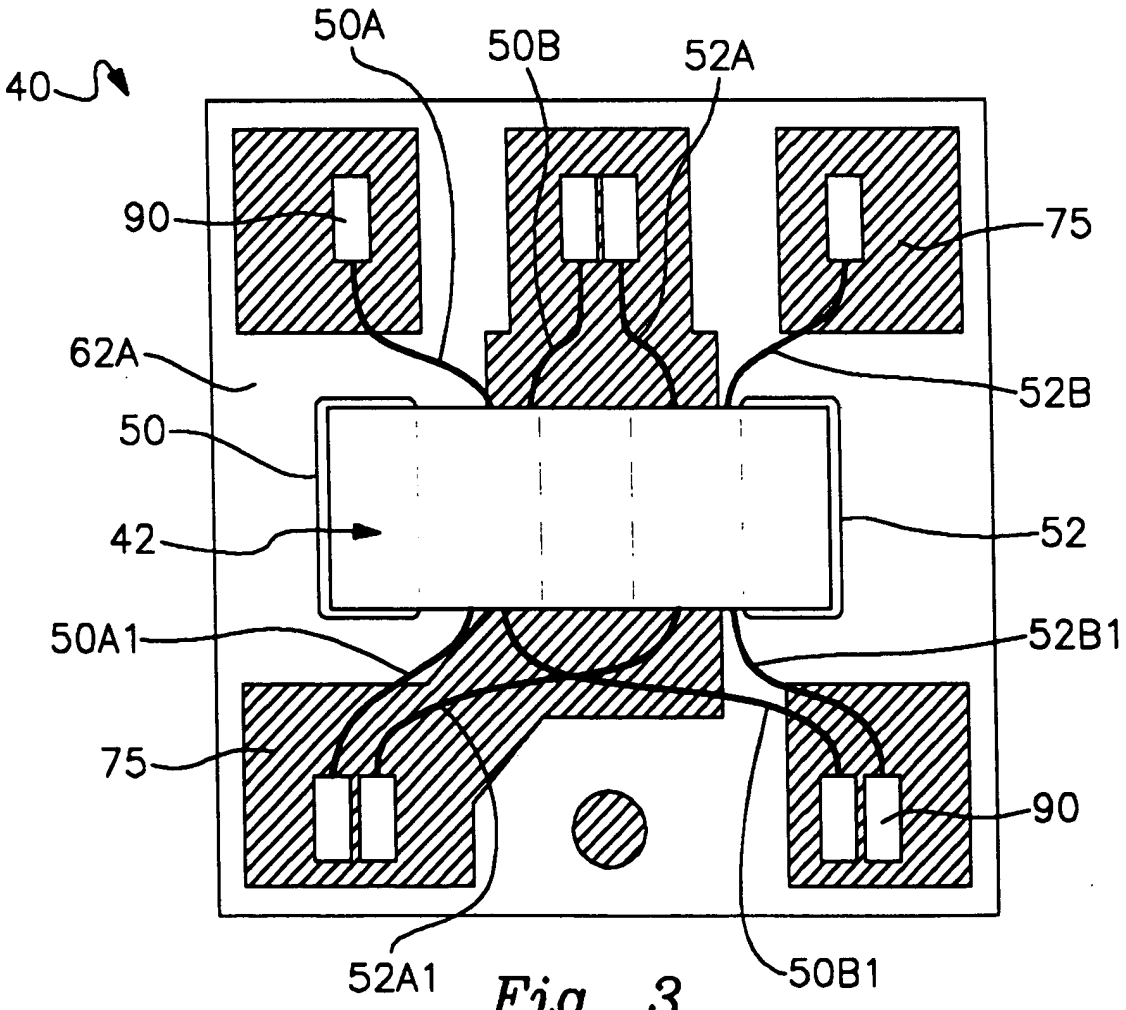

Fig. 3

Express Mail No. EV 325 274 008 US

20020247.20020626

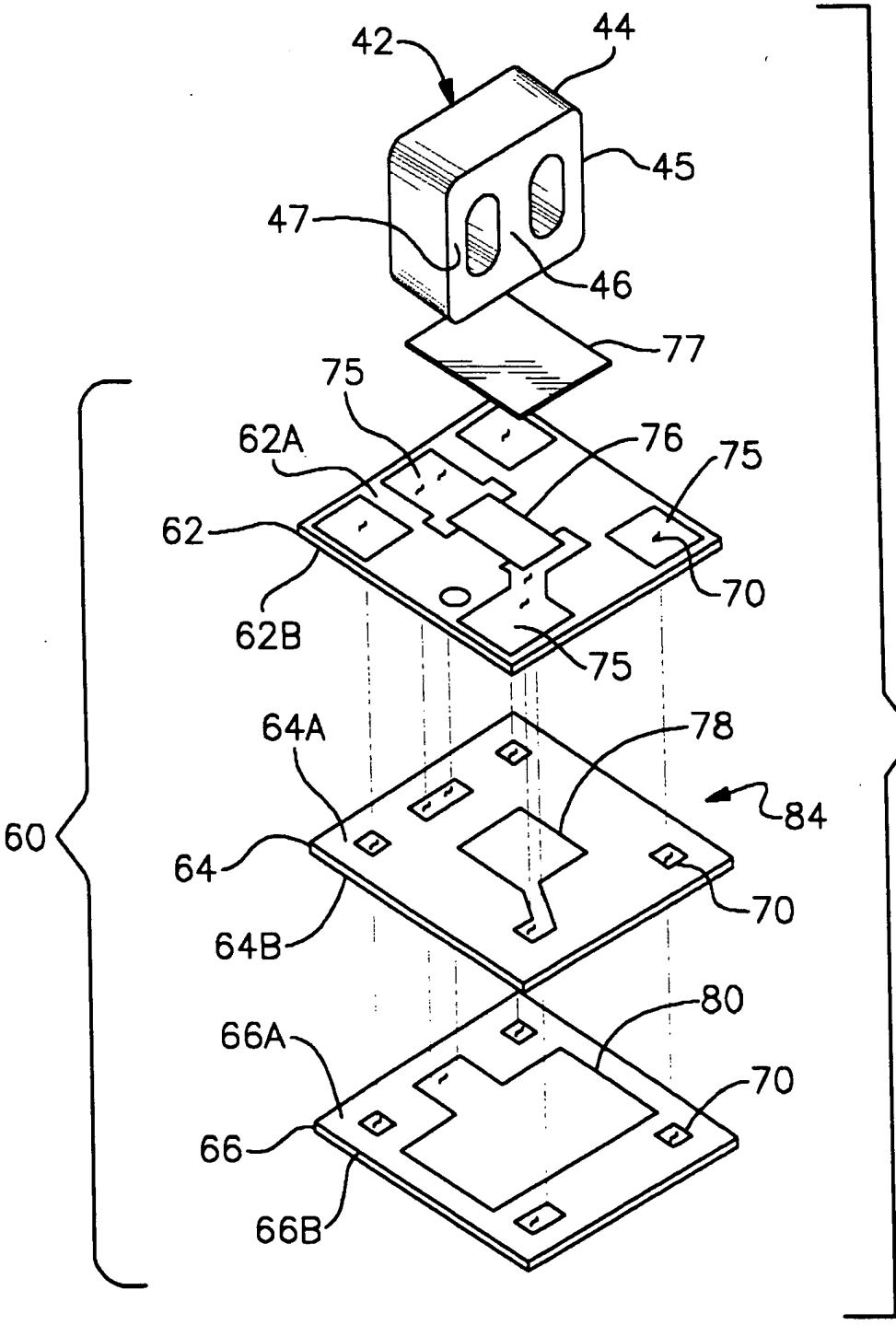

Fig. 2

20020145008

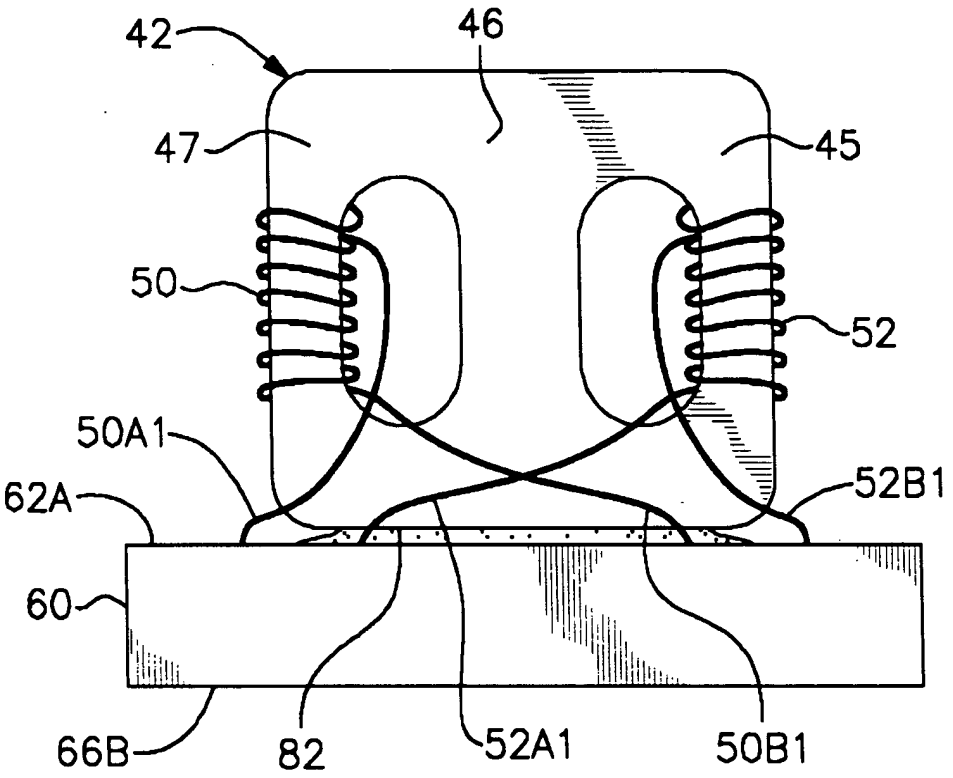

Fig. 4

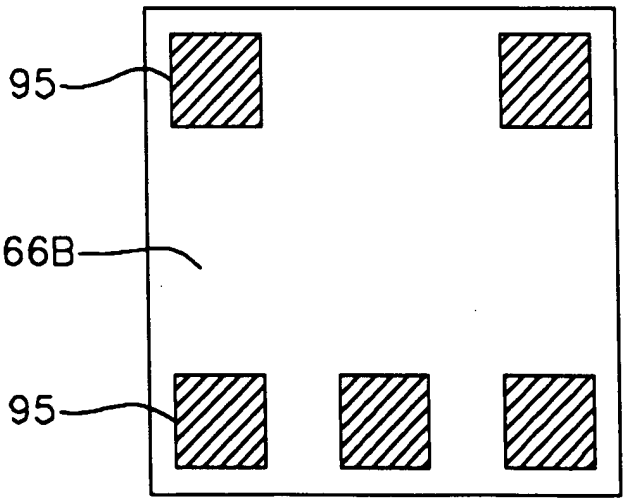

Fig. 5

209220 "27/28 DOT"

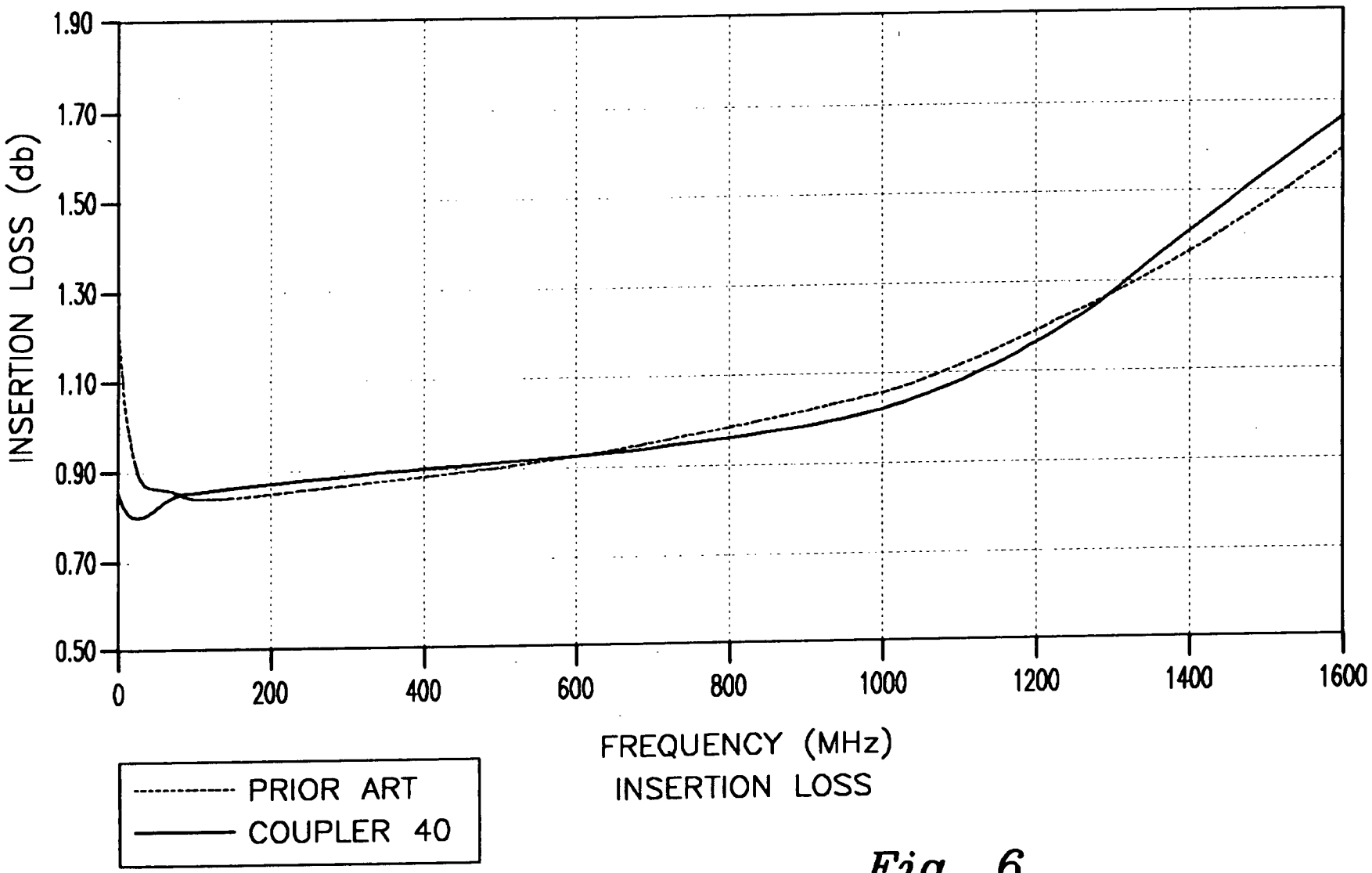

Fig. 6

209220 "27Z8001

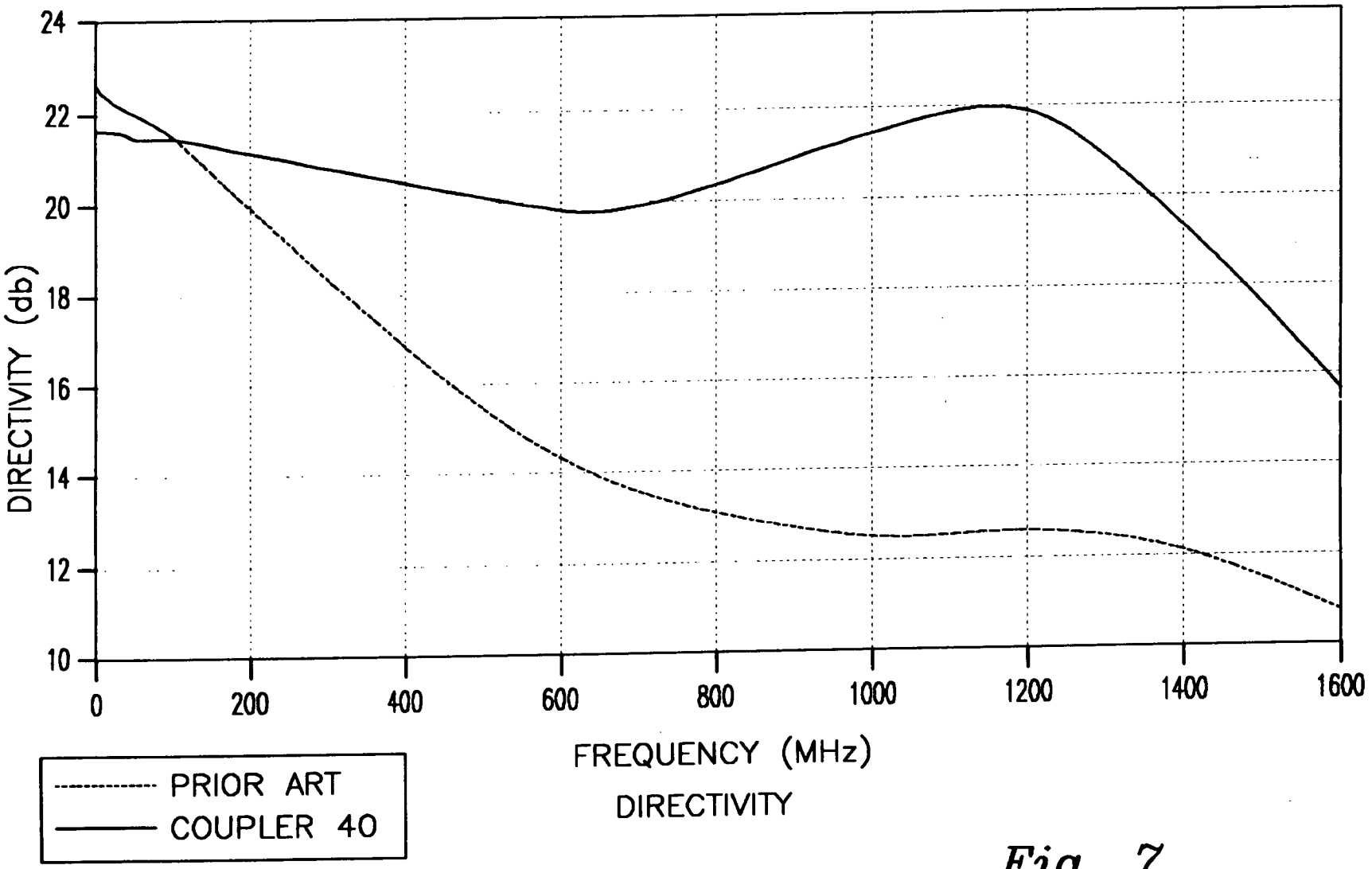

Fig. 7

209220 "27280DT

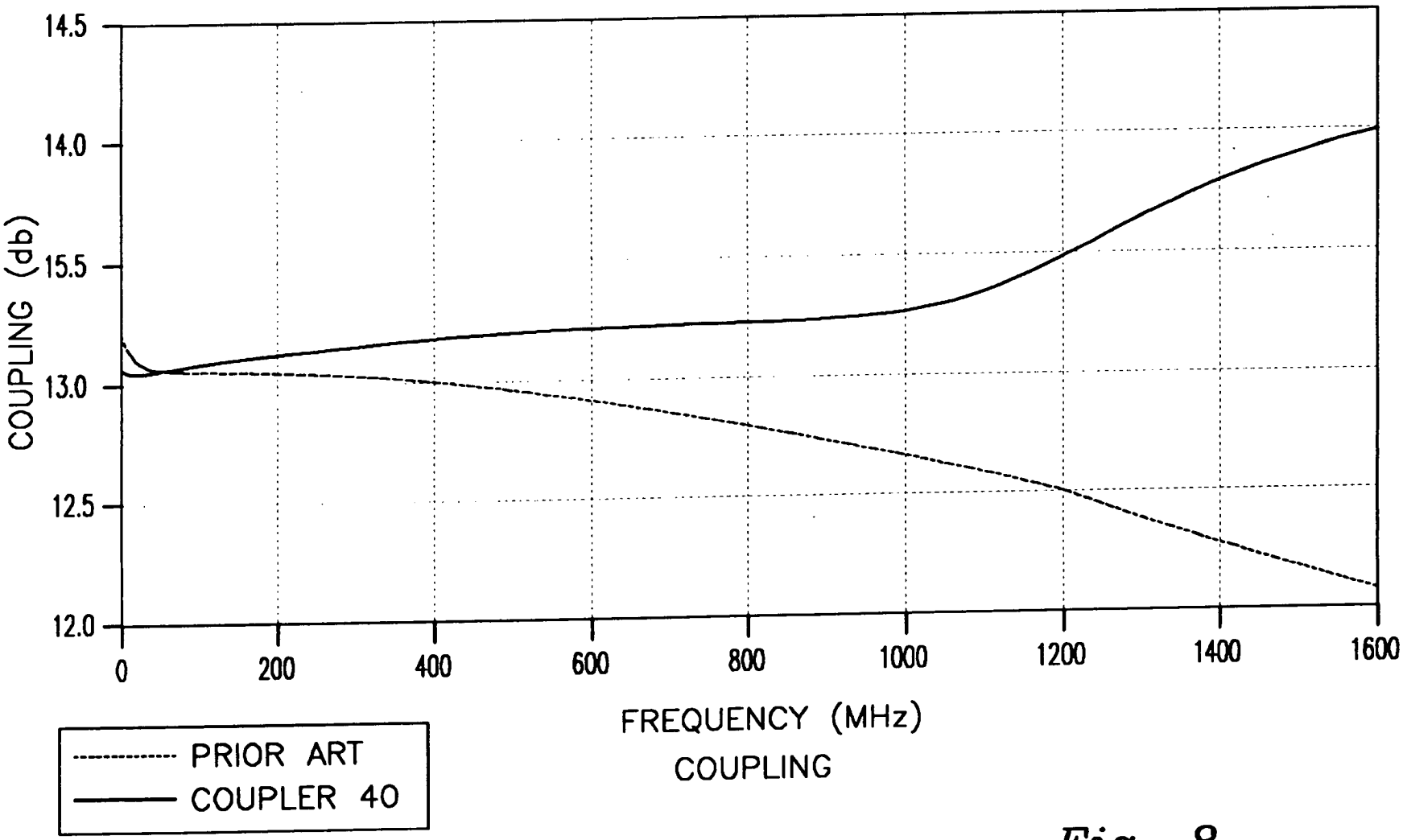

Fig. 8

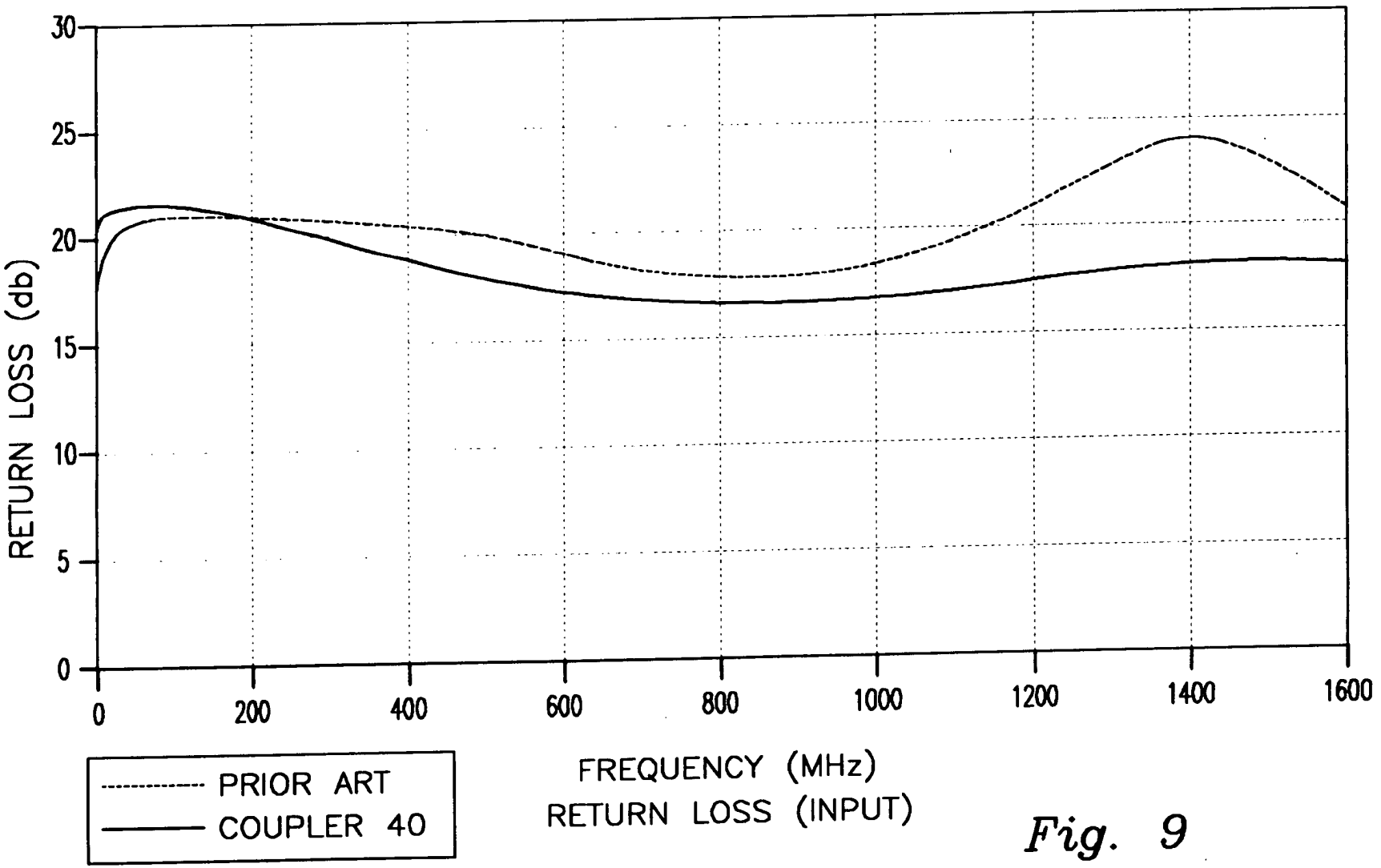
30
25
20
15
10
5
0
RETURN LOSS (db)
0
200
400
600
800
1000
1200
1400
1600
FREQUENCY (MHz)
RETURN LOSS (INPUT)
PRIOR ART
COUPLER 40

Fig. 9

209220 "27280DT

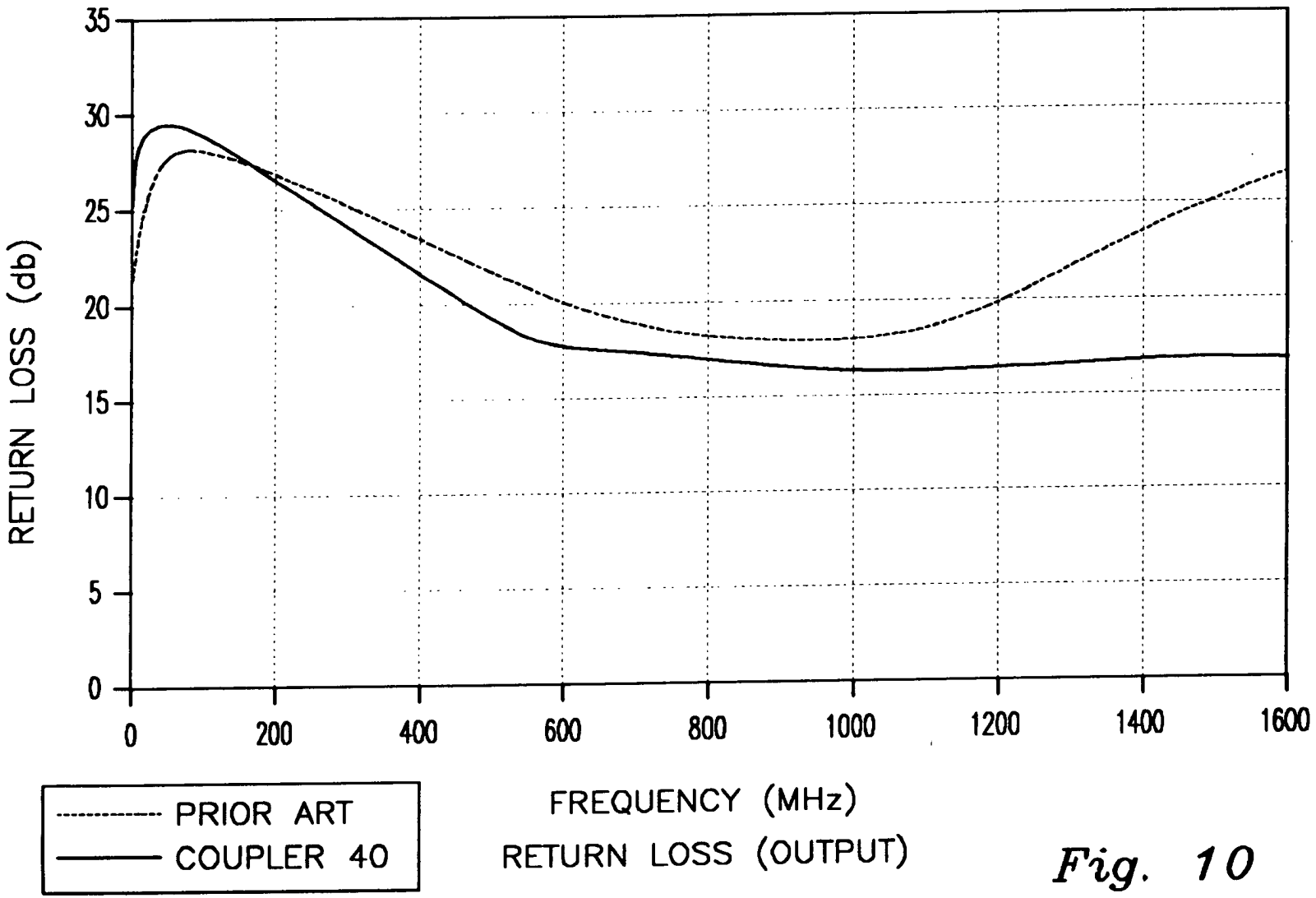

Fig. 10

209220 '4747800T

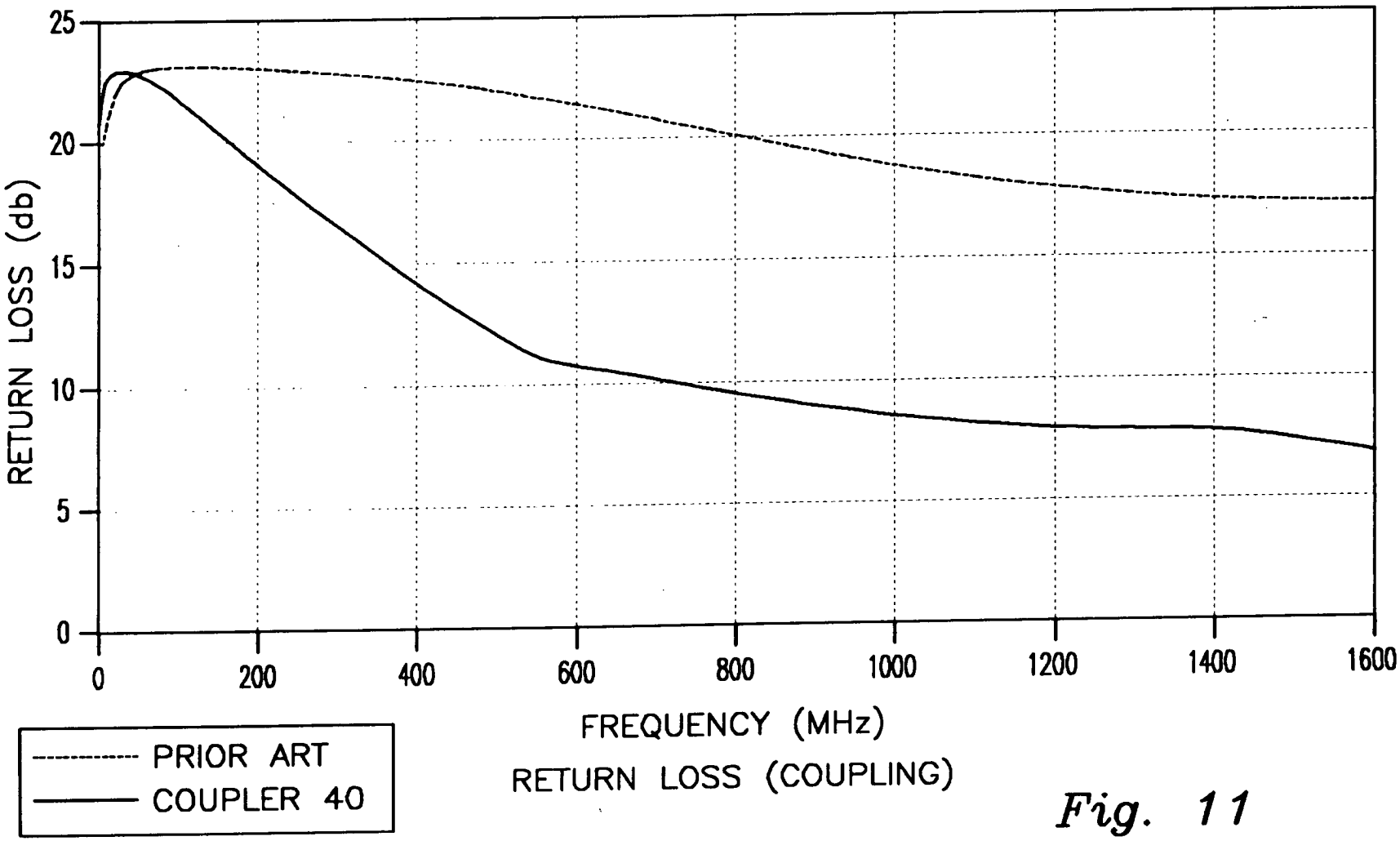

Fig. 11

ELECTRICAL SPECIFICATIONS

MODEL NO.	FREQ. RANGE (MHz) fl–fu	COUPLING (db) Nom.	Max. Flatness	MAINLINE LOSS (db) L Typ.Max.	M Typ.Max.	U Typ.Max.	DIRECTIVITY (db) L Typ.Min.	M Typ.Min.	U Typ.Min.	VSWR (:1) Typ.	POWER INPUT, W L Max.	MU Max.
DBTC-9-4	5–1000	9.0±0.5	±0.5	1.2 2.0	1.2 1.8	1.5 2.0	21 17	18 13	15 --	1:30	0.5	1.0
DBTC-10-4-75	5–1000	10.5±0.5	±0.7	1.5 2.2	1.4 2.0	1.5 2.0	21 16	20 13	16 --	1:30	0.5	1.0
DBTC-12-4	5–1000	12.2±0.5	±0.9	0.9 1.8	0.7 1.3	1.1 1.6	33 22	21 14	15 --	1:30	0.5	1.0
DBTC-13-4	5–1000	13.0±0.5	±0.6	0.7 1.3	0.7 1.3	1.1 1.6	21 17	18 13	13 --	1:30	0.5	1.0
DBTC-13-5-75	5–1000	13.2±0.5	±0.6	0.9 1.4	1.0 1.5	1.1 1.6	21 17	19 14	18 --	1:30	0.5	1.0
	1000–1500	13.6±0.5	±0.8		1.4 2.2			17 --				
DBTC-16-5-75	5–1000	16.3±0.5	±0.7	1.2 2.0	1.0 1.5	1.1 1.6	22 16	21 13	20 --	1:30	1.0	1.0
	1000–1500	16.5±0.5	±0.7		1.3 1.9			19 --		1:30	1.0	1.0
DBTCC-17-5	5–1000	17.0±0.7	±0.9		0.9 1.4			20 13		1:30	--	2.0
	1000–1500	17.7±0.9	±1.0		1.0 1.5			20 10		1:30	--	2.0
	1500–2000	18.0±1.0	±0.8		1.1 1.6			14 --		1:30	--	2.0
DBTC-18-4-75	5–1000	18.2±0.5	±0.7	0.8 1.5	0.8 1.4	1.0 1.6	25 16	21 14	15 --	1:30	1.0	1.0
DBTC-20-4	20–1000	20.4±0.6	±0.8	0.3 1.0	0.4 1.0	0.7 1.3	21 13	21 14	16 --	1:20	1.0	1.0

L=low range [f_L to $10f_L$] M=midrange [$10f_L$ to $f_u/2$] U=upper range [$f_u/2$ to f_u]

Fig. 12